**Idea:** Number line representations

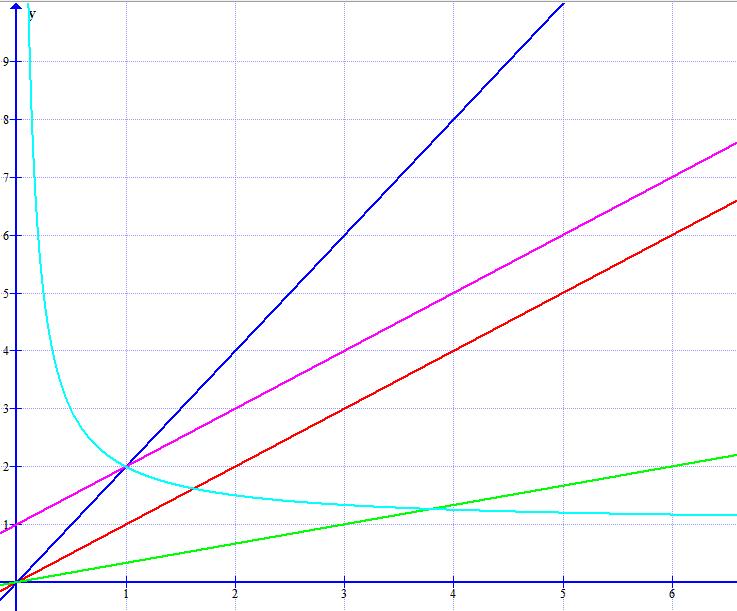
Connecting Number Lines and Functions

Key Ideas:

* Magnitude as linear measure is an essential understanding for interpreting graphical representations
* Expressions have a value, which can be represented as a magnitude
* Axes are like number lines – continuous, variable units, units are symbols
* Interpreting graphs depends on understanding fractions as values
* Functions capture a general relationship between an expression an it’s value

Ex.

x is 3



y= (x+1)/x

y= x/3

y=x

y=x+1

y=2x

x

3

x+1

x

0

x+1

x

2x